



Technical Analysis and Findings

Utah Coal Regulatory Program

PID: C0150025
TaskID: 4650
Mine Name: BEAR CANYON MINE
Title: BATHHOUSE PARKING LOT EXPANSION

Summary

This amendment was previously reviewed as task 4637 in 2014 and as tasks #3016, #3097 in 2008 and 2009, respectively.

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General Contents

Permit Application Format and Contents

Analysis:

The Permittee has corrected the pagination problems listed as a deficiency in the last round of review for this amendment. No further problems were observed.

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Operation Plan

Topsoil and Subsoil

Analysis:

This amendment describes a 0.36 acre expansion to the shower house pad. The new disturbed area figure is 40.64 acres (Table 1-4). The DZE & D soil map unit disturbed acreage has increased by 0.36 acres on Table 2-2. There is an expected topsoil salvage depth from this map unit of 6 inches.

Table 2-5 describes an increase of 281 cu yds of substitute topsoil from this expansion.

Table 2-7 shows an increase in Reclamation Area TS-9 of 0.36 acres. The reclamation areas are shown on Plates 2-3 and Plates 5-2.

Table 2-8 location TS-9 has been updated with the 0.36 acre expansion. Table 2-8 now indicates that there will be 3,533 cu. yds. of topsoil replaced over the 2.19 acre area at reclamation, an increase of 581 cu yds. That translates to twelve inches of replacement topsoil over the 2.19 acre area.

Table 2-8 further lists that an additional 281 cu yd of substitute topsoil will be generated from the expansion to be stored as topsoil in a topsoil stockpile. That topsoil along with substitute topsoil will provide a total of 4,042 cu yds of cover soil from TS-9 at reclamation.

Table 5I-1 Cut and Fill Summary has been revised to show a total fill volume of 10,954 cu yd and total cut volume of 10,911 cu. yd. from area TS-9. These figures correspond to the sum of cut and fill outlined on Table 5I-8 for area TS-9. was edited to show an increase in volume of soil to fill the pad at cross section E-E. The introduction to Appendix 5I states that Plate 5-6 shows the contours upon which the cross-sections are based. However Plate 5-6 was not updated with this application. Rather contour E-E' is shown on Reclamation Area Plate 2-3B which was updated with this application. Consequently, cross section E-E' will require a separate P.E. stamp from the stamp placed at the beginning of Appendix 5I.

Deficiencies Details:

R645-301-512.200, The application may be conditionally approved, pending the receipt of the P.E. stamped Reclamation Area Plate 2-3B (which shows the location of cross section E-E') and a P.E. stamped Cross-Section E-E'. In addition the cross section E-E' must state that its location is found on Plate 2-3B.

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Reclamation Plan

Bonding Determination of Amount

Analysis:

The Permittee submitted revised direct cost figures in order to ensure the reclamation of an expanded parking lot area down Canyon of the Bear Canyon bathhouse facility. The expansion of the facility will require an additional \$ 120,450 to ensure pavement disposal, re-grading and revegetation work.

Indirect costs are calculated as the OSM standard of 26.8% or an additional \$ 32,281.00.

The total cost prior to escalation is \$ 2,011,436.01.

The Permittee submitted reclamation cost estimate was escalated for five years using an escalation factor of 1.5 %. This is not the correct escalation factor for 2014.

The correct escalation factor for 2014 is 1.9 %, or 1.019 to the 5th power (for 5 years) or 1.09868.

The escalation dollar amount to ensure bond coverage through 2019 is \$ 198,489.00.

The total bond amount required to allow the Division to approve the Bear Canyon parking lot expansion is \$ 2, 210,000.00.

The Permittee is short on the amount of bond coverage required by \$ 208,000.00, or 9.4 %.

Rhino Energy must post this additional bond before the Division can approve the Task ID # 4650 parking lot expansion application.

Deficiencies Details:

The Permittee must post an additional \$ 208,000 bond before the Division can approve Task ID # 4650, BATHHOUSE PARKING LOT EXPANSION.

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